

PDR RID Report

Originator Angie Kelly **Phone No** 286-7726
Organization Mission Operations Manager/505
E Mail Address AKelly (GSFCMail)
Document PDR

RID ID	PDR	122
Review	FOS	
Originator Ref		ACK #23
Priority	2	

Section NA

Page NA

Figure Table NA

Category Name Design

Actionee HAIS

Sub Category

Subject Accumulated TLM values

Description of Problem or Suggestion:

No mention was made of a system capability to determine or archive spacecraft or component characteristics which accumulate over time, such as the total number of times a transmitter has been cycled on and off, the accumulated amount of travel of the HGA gimbals, or the accumulated total number of rotations of a component within an instrument.

These statistics of accumulated usage can sometimes be difficult to compute from archived TLM values, particularly when need for them is not recognized until months or years after launch. On the other hand, they can often be easily determined from stored and/or real-time commands, or from TLM examined on a daily basis.

Originator's Recommendation

Provide a capability to determine and archive accumulated characteristics of on-board components (similar to mileage accumulated by an odometer), and similarly for selected ground system characteristics (e.g. the total TDRS contact time used by each EOS spacecraft). Input data for these determinations may come from TLM data, stored and real-time commands, and ground products such as TDRS schedules.

GSFC Response by:

GSFC Response Date

HAIS Response by: D. Herring

HAIS Schedule 2/3/95

HAIS R. E. J. Kuntz

HAIS Response Date 1/24/95

Due to time limitations, all capabilities being provided by the ECS/FOS were not presented at the PDR. Nevertheless, these capabilities which were not presented are still part of the ECS/FOS baseline. The capability to determine and maintain information regarding accumulated characteristics of on-board components is being provided by the ECS/FOS and the requirements associated with this capability can be found in the Flight Operations Segment (FOS) Requirements Specification for the ECS Project in section 8.5.1.

Status Closed

Date Closed 2/1/95

Sponsor Johns

***** Attachment if any *****